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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,362	06/15/2005	Ralph Kurt	NL 021426	7350
	7590 03/01/201 LLECTUAL PROPER	EXAMINER		
P.O. BOX 3001		MULVANEY, ELIZABETH EVANS		
BRIARCLIFF MANOR, NY 10510			ART UNIT	PAPER NUMBER
			1794	
			MAIL DATE	DELIVERY MODE
			03/01/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Communication		Ар	plication No.	Applicant(s)			
		10	/539,362	KURT ET AL.			
Office Action Summary			aminer	Art Unit			
		Eliz	zabeth E. Mulvaney	1794			
Period fo	The MAILING DATE of this communi r Reply	cation appears	on the cover sheet with the	correspondence ad	ddress		
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MASSION OF	AILING DATE of 37 CFR 1.136(a). unication. tutory period will app will, by statute, cause	OF THIS COMMUNICATIO In no event, however, may a reply be ti ly and will expire SIX (6) MONTHS from the application to become ABANDONI	N. mely filed the mailing date of this of ED (35 U.S.C. § 133).			
Status							
2a)⊠	Responsive to communication(s) filed This action is <b>FINAL</b> . 2 Since this application is in condition followed in accordance with the practice.	b)∏ This action	on is non-final. except for formal matters, pr		e merits is		
Dispositi	on of Claims						
5) 6) 7) 8)	Claim(s) 1-7,9-11,13-17 and 19-23 is 4a) Of the above claim(s) is/ar Claim(s) is/are allowed. Claim(s) 1-7,9-11,13-17 and 19-23 is Claim(s) is/are objected to. Claim(s) are subject to restrict	e withdrawn fr	om consideration.				
Applicati	on Papers						
10)	The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	a) ☐ accepted tion to the draw the correction is	ing(s) be held in abeyance. Se required if the drawing(s) is ob	e 37 CFR 1.85(a). Djected to. See 37 C	, ,		
Priority u	ınder 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
	e of References Cited (PTO-892)		4) Interview Summary				
3) 🔲 Inforr	e of Draftsperson's Patent Drawing Review (P <sup>-</sup> nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	ГО-948)	Paper No(s)/Mail D 5) Notice of Informal   6) Other:				

## **DETAILED ACTION**

## Response to Arguments

Applicant's arguments filed 11/17/09 have been fully considered but they are not persuasive. Applicant argues that the Aoshima reference does not disclose the relationship between the thickness of the recording sub-layers and the read wavelength. However, the reference does disclose the same materials in the same thickness as is discussed in the previous Office Action. As stated in the Office Action, the layers are formed of the same materials and of the same total thickness and would be capable of achieving the claimed properties. While applicant may be claiming the parameters of the medium in a different way, i.e. the total thickness of the sub-layers is dependent upon the read wavelength, the reference still meets the limitations. The total thickness of applicant's sub-layers will be a range due to the possibility of using different wavelengths. The range disclosed in the reference overlaps that claimed.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 9-11, 13-14, 16-17 and 20-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 2003/0190551.

The reference discloses a recording medium comprising a substrate, a reflective layer, a dielectric layer, a two-layered recording layer, a dielectric layer and a cover layer. The reflective layer

and first dielectric layer are equivalent to applicant's "additional" layers. The first dielectric layer can also be equivalent to applicant's "spacer" layer. See Figure 3 and explanation thereof. The thickness of the recording layers falls within applicant's disclosed range. Therefore, the medium would be capable of achieving the interference effectclaimed. The DVD is recorded upon with a laser which mixes the two layer of the recording layer to form recording marks. Reading is performed by detecting a difference in reflection of the recorded and unrecorded portions. See [0120].

Claims 2-7 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 2003/0190551 as applied to claim 1 above, and further in view of US 6,033,752.

The '551 reference discloses the medium and method as described in the above rejection. It is recognized that the reference does not disclose the claimed combination of alloying materials. However, the '752 reference shows that these combinations, such as Bi-Sn or In-Sn are known. See cols. 6-7. Therefore, it would have been obvious to one of ordinary skill in the art to substitute the alloy combination of the '752 reference for the alloy combination of the '551 reference. The substitution of one known recording material for another would yield predictable results. Further, the '752 reference show that it is known to utilized double-sided media in increase the recording capacity.

## Conclusion

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the

THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth E. Mulvaney whose telephone number is 571-272-1527. The examiner can normally be reached on Monday-Friday 9am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Ruthkosky can be reached on 571-272-1291. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Elizabeth E. Mulvaney/

Primary Examiner, Art Unit 1794

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